

24,7700 (11C0,1164,1385)

32368  
S/072/62/000/001/001/003  
B105/B110

AUTHORS:

Botvinkin, O. K., Doctor of Chemical Sciences, Professor,  
Vorob'yeva, O. V.

TITLE:

Effect of  $\gamma$ -irradiation on some properties of current-conducting films

PERIODICAL:

Steklo i keramika, no. 1, 1962, 4

TEXT: On the assumption that new structural defects develop owing to  $\gamma$ -irradiation of metallic oxide films, which increases their total conductivity, the effect of  $\gamma$ -irradiation on the electrical conductivity of semiconductor films was investigated. 4 mm thick glass specimens of the composition BBC(VVS) were used for this purpose. The glass was covered with a 0.5 - 0.7  $\mu$  thick semiconductor film of tin dioxide which contained activating admixtures of antimony. The film was applied onto the specimens by spraying alcoholic solutions of tin tetrachloride at 640°C. The surface impedance of these layers was 60 - 100 ohms per unit area. The films were colorless and were exposed to  $\gamma$ -irradiation (dose  $5.6 \cdot 10^5$  r), with the specific conductivity of the films not changing. X-ray examinations of the

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Effect of  $\gamma$ -irradiation on...

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films in the system  $\text{SnO}_2 - \text{In}_2\text{O}_3$  showed that the conductivity was chiefly destined by the crystal structure of the coating. If the structure of the film is comparable with the glass structure, its conductivity is greatly reduced. Conclusion: The  $\gamma$ -irradiation has no effect on the change of electrical properties of films. Experiments showed that the semiconductor film of tin dioxide may be used as a coating for parts of apparatus and devices exposed to  $\gamma$ -irradiation. The electrical parameters do not change.

Card 2/2

ZEVIN, L.S.; VUROB'YEVA, O.V.

Methods of studying the textures of thin coatings. Zav.lab.  
28 no.6:694-697 '62. (MIRA 15:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stekla.  
(Metallic films)

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~~For emulsification in water or organic solvent, fine spraying can be~~

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BOTVINKIN, O.K., doktor khimicheskikh nauk, prof.; VOROF'YEVA, O.V.

Effect of gamma radiation on some properties of current-conducting  
coatings. Stek. i ker. 19 no.1:4 Ja '62. (MIRA 15:3)  
(Semiconductors) (Gamma rays--Industrial Applications)

VOROB'YEVA, O.V., kand. tekhn. nauk; VINOGRADOVA, V.V., inzh.

Metal oxide films on glass with uniform and variable  
resistance. Stek. i ker. 20 no.8:13-15 Ag '63.  
(MIRA 16:11)

1. Gosudarstvennyy institut stekla.

15.8114

S/072/6:/000/001/001/005  
B021/B024

AUTHORS: Botvinkin, O. K., Professor, Vorob'yeva, O. V., Portnova, V.A.

TITLE: Insulation of Conductive Glass Coatings

PERIODICAL: Steklo i keramika, 1961, No. 1, pp. 16-18

TEXT: The Institut stekla (Glass Institute) made an investigation to find transparent varnishes capable of insulating glasses with conductive surface. Among organic compounds, polyamide resin and 124-БЭИ (124-VEI) varnish gave the best results. Polyamide films, however, have a poor mechanical stability. From among a great number of organosilicon compounds, the authors tested varnishes K-47 and K-60; K-47 was found to have insufficient mechanical stability, and is therefore not recommendable as an insulating material. Upon recommendation by the nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry), the organometallic compound КВС (KBS) and the organo-silicon resins W-4 (P-4), W-5 (P-5), W-20 (P-20), and W-40 (P-40) were added to the varnish, which, however, did not increase the mechanical stability of K-47. K-60 varnish shows good insulating properties. A table

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Insulation of Conductive Glass Coatings

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B021/B054

compares the hardness characteristics of films of the two best varnishes K-60 and 124-VEI on glasses with a semiconductor tin-dioxide layer. Films of K-60 varnish are transparent, heat-resistant up to 200°C, water-repellant, adhere well to glass, but have a relatively low hardness value. Films of 124-VEI varnish are very hard, heat-resistant, and water-repellant. Because of their color they can only be used in cases where a high transparency is not required. There is 1 table.

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BOTVINKIN, O.K., prof.; VOROB'YEVA, O.V.; PORTNOVA, V.A.

Insulating the electricity-conducting coating on glass. Stek.  
1 ker. 18 no. 1716-18 Ja '61. (MIRA 14:1)  
(Glass—Electric properties) (Protective coatings)

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stance coincide with the corresponding values for  $\text{SnO}_2$ . The relative

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tendant on the varied thickness of the coatings. The film thickness is decreased in proportion to the increase in the slope of the jet. The transparency is also reduced in this case. Authors conclude that it is not always advantageous to use slanted jets to obtain films with uniformly-a fluctuating resistance. Orig. art.

Author: V. Institut: Shekla (Glass Institute)

Subject:

DATE A.D.: 27.1.87?

PAGE: 00

TYPE: 00

ACC NR: AP6029048

(A)

SOURCE CODE: UR/0413/66/000/014/0072/0072

INVENTORS: Vorob'yeva, O. V.; Bessonova, Ye, S.; Arshakyan, A. M.

ORG: none

TITLE: A method for preparing colored heat-shielding glass. Class 32, No. 183914

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 72

TOPIC TAGS: glass, tin, titanium, antimony, iron oxide, safety glass

ABSTRACT: This Author Certificate presents a method for preparing colored heat-shielding glass by depositing a film of iron oxide on a glass base heated to 550--650°C. This is accomplished by aerosol atomizing aqueous or hydrochloric acid solutions of iron salts containing 15--50% of film-forming salt. To improve the reflectivity in the infrared spectral range, up to 10% of oxides of the elements in the fourth and fifth groups of the periodic table (for instance, tin, titanium, or antimony) are introduced to the film-forming solution.

SUB CODE: 11/ SUBM DATE: 22Jan64

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UDC: 666.1.056

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VOROB'YEVA, P.A.

RYABOV, A.L., polkovnik zapasa; IVANOV, V.V., polkovnik zapasa; FILIPPOV,  
I.A., polkovnik; VOROB'YEVA, P.A., polkovnik, red.; STREL'NIKOVA,  
M.A., tekhn.red.

[Field artillery manual for commanders of reserve platoons]  
Spravochnik komandira vzyvoda zapasa nasemnoi artillerii. Moskva,  
Voen.izd-vo M-va obor. SSSR, 1957. 319 p. (MIRA 11:2)  
(Artillery, Field and mountain)

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CIA-RDP86-00513R001860830009-6"

GUTNIKOVA, Z.I.; VOROB'YEVA, P.F.; ILIYEVA, St.

Development and productivity of cultivated ginseng under various geological conditions. Soob. DVFAK SSSR no.21:29-32 '63.  
(MIRA 18:5)

1. Biologo-pochvennyy institut Dal'nevostochnogo filiala  
Sibirskego otdeleniya AN SSSR i Institut rasteniyevodstva  
Bolgarskoy Akademii nauk.

COUNTRY	:	KORSA
CATEGORY	:	Cultivated Plants. Medicinal. Ethereal Oil. Poisonous. K
ABS. JOUR.	:	RZhBiol., No. 23, 1958, No. 104895
AUTHOR	:	Vorob'yeva, P. P.
INST.	:	-
TITLE	:	Growing Ginseng in Primorskiy Krai.
ORIG. PUB.	:	Choson yakkhak, 1957, No. 2, 37-33
ABSTRACT	:	No abstract.

CARD: 1/1

163

VOROB'YEVA, P.P.

Development and some anatomicophysiological characteristics of ginseng  
as related to light conditions. Mat. k izuch. zhen'shenia i lim.  
no.4:64-86 '60. (MIRA 13:9)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.  
(GINSENG) (PLANTS, EFFECT OF LIGHT ON)

GUTNIKOVA, Z.I.; VOROB'YEVA, P.F.; BUNKINA, I.A.; BELIKOV, I.F.,  
kand. biol. nauk, red.

[Ginseng and its cultivation] Zhen'shen' i ego vozdel'y-  
vanie. Vladivostok, Primorskoe knizhnoe izd-vo, 1963.  
123 p. (MIRA 17:8)

VOROB'YEVA, P.P.

Some problems of the agrictechnics of ginseng on a plantation  
with artificial plant shading. Mat. k izuch. zhen'. i drug.  
lek. rast. Dal'. Vost. no.5:29-37 '63.

Effect of light of different intensity on the growth, development,  
productivity and photosynthetic activity of ginseng.  
*Ibid.*:75-87  
(MIRA 17:8)

Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya  
AN SSSR.

GRINEVICH, M.A.; GUTRIKOVA, Z.I.; VOROB'YEVA, P.P.

Effect of varicous growth conditions on the development of  
ginseng... on the biological activity of its root. Mat. k  
izuch. zhen'. i drug. lek. rast. Dal'. Vest. no.5:89-97 '63.  
(MIR4 17:8)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya  
AN SSSR.

GUTHIKOVA, Z.I.; VOROB'YEVA, P.P.

Cultivation of ginseng in the southern part of the Maritime  
Territory. Trudy Bot. inst. Ser. 6 no. 7:326-330 '59.  
(MIRA 13:4)

1. Dal'nevostochnyy filial im. V.L.Komarova AN SSSR,  
Vladivostok.  
(Sputnika Preserve--Ginseng)

GUTNIKOVA, Z.I.; VOROB'YEVA, P.P.

Seed production of ginseng cultivated in the Maritime Territory.  
Soob. DVFAK SSSR no.18:57-61 '63. (MIRA 17:11)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya AN  
SSSR.

VOROB'YEVA, R.A.; STURUA, L.P.

Safe cleaning of dehydrators. Bezop. truda v prom. 3 no. 6:27-28  
Je '59. (MIRA 12:10)  
(Petroleum industry--Equipment and supplies)

VOROB'YEVA, R.P.; IVANOVA, Ye.N.; CHUKIN, G.D.

Intensity and position of electron absorption bands in  
biphenyls in various solvents. Izv. vys. ucheb. zav.; fiz. no.  
3:119-123 '64. (MIRA 17:9)

1. Voronezhskiy gosudarstvennyy universitet.

VOROB'YEVA, R.P.; IVANOVA, Ye.N.

Investigating the electron absorption spectra of some sulfamides.  
Izv. vys. ucheb. zav.; fiz. no. 1:164-167 '60. (MIRA 13:12)

1. Voronezhskiy gosudarstvennyy universitet.  
(Sulfamide—Spectra)

IVANOVA, Ye.N.; VOROB'YEVA, R.P.

Effect of a solvent on the absorption spectra of some sulfamides.  
Izv.vys.ucheb.zav.; fiz. no.5:39-43 '61. (MIRA 14:10)

1. Voronezhskiy gosudarstvennyy universitet.  
(Sulfamides—Spectra)